(No Model.)

A. L. GARFORD.

BICYCLE SADDLE.

No. 523,115. Patented July 17, 1894.

FIG. 1

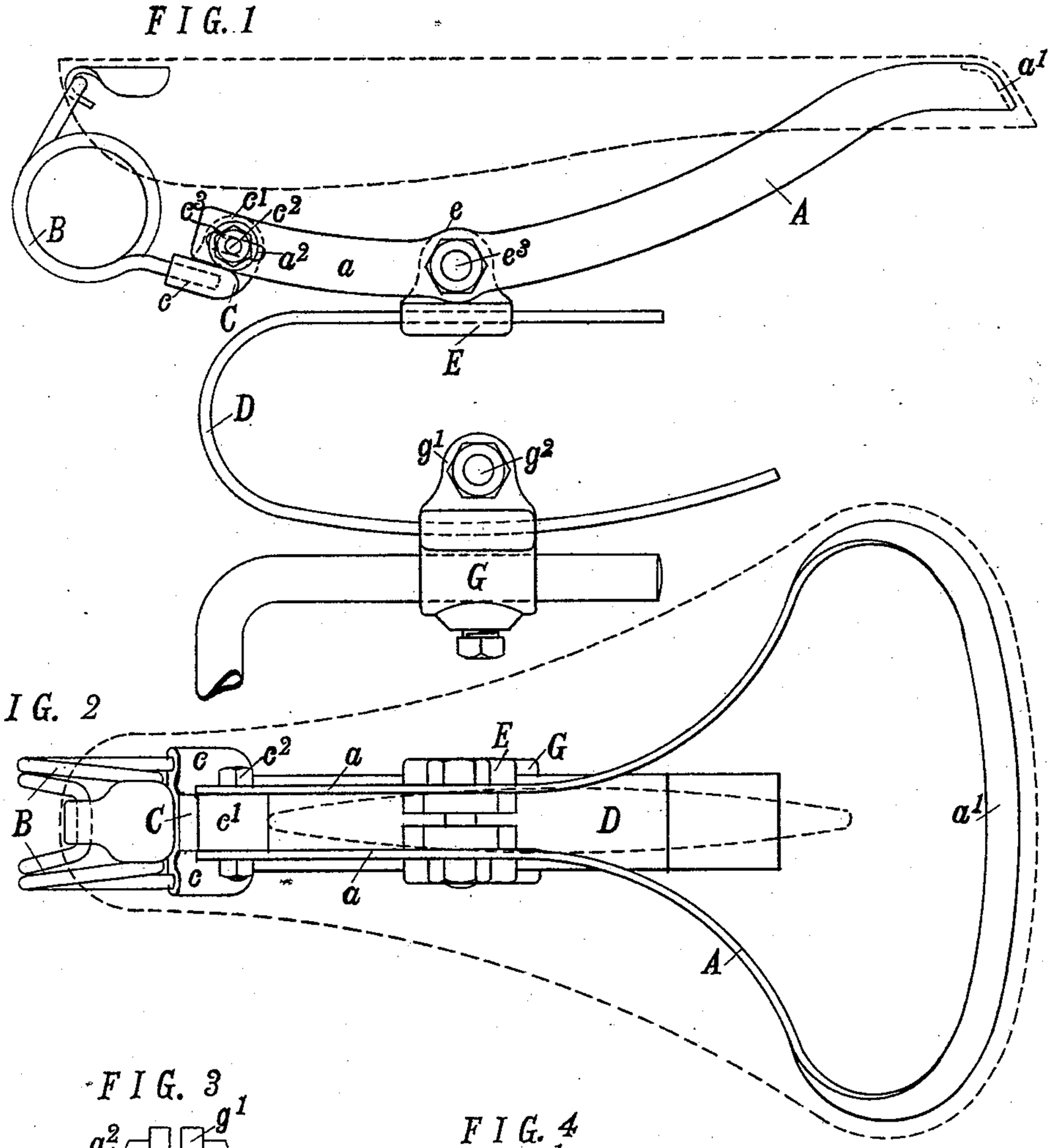


FIG. 2

FIG. 3

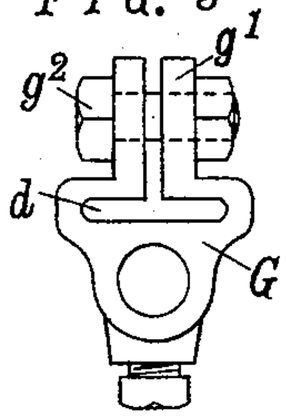


FIG. 4

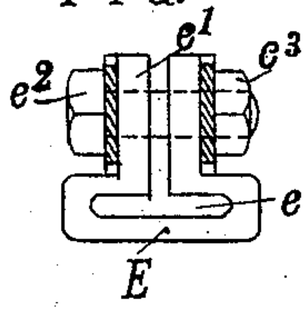
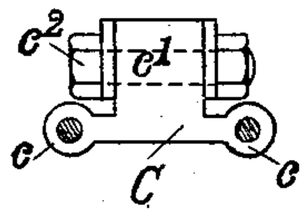


FIG. 5



WITNESSES.

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his atty.

UNITED STATES PATENT OFFICE.

ARTHUR L. GARFORD, OF ELYRIA, OHIO.

BICYCLE-SADDLE.

SPECIFICATION forming part of Letters Patent No. 523,115, dated July 17, 1894.

Application filed July 5, 1892. Serial No. 438,951. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR L. GARFORD, a citizen of the United States, residing at Elyria, in the county of Lorain and State of Ohio, have invented certain new and useful Improvements in Bicycle-Saddles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The objects of my invention are to provide novel mechanism for changing the tilt or inclination of the seat; to provide novel mechanism for taking up the slack of the saddle leather; and to otherwise improve and simplify the construction of bicycle saddles, in the manner hereinafter described;—all of which will be definitely pointed out in the claims.

In the drawings, Figure 1 is a side elevation of my improved velocipede saddle; and Fig. 2 is a top plan view thereof. In both of these two figures the leather is shown by dotted lines. Figs. 3, 4 and 5 are views respectively of the clips which are employed in the construction of the saddles as shown in Figs. 1 and 2.

In my improved saddle, as shown in the drawings, the cantle and rear seat supports are constructed of a single metallic strip A. This strip is bent at its middle substantially as shown to form the cantle a' of the saddle; and the two legs a a of the strip are bent toward and parallel to each other and form the supports for the rear part of the seat leather. The support for the forward end of the saddle is a coil spring B, the ends of which sit into sockets c in the clip C. This clip is provided with an ear c' which lies between the forward ends of the rear saddle supports a a. A bolt c^2 passes through slots a^2 in both legs a a and through the interposed ear c', whereby the clip is secured to said legs. The slack of the saddle leather may be taken up by moving this bolt in said slots; or the leather may be tightened or loosened as desired by turning the clip C on the bolt c^2 as a pivot. By screwing up the nut on bolt c^2 the clip C is rigidly fixed to the legs a a. The pivotal movement of the clip C not only tightens or loosens the leather but it also raises or lowers the upper end of the front spring support B, and thereby, to a greater or less extent, changes the inclination of the saddle leather by raising or lowering its front end.

The seat above described may be secured either directly to the saddle post or to an intermediate spring, as for example the U-shaped spring D, by means of a suitable clip. In Fig. 3 a clip is shown by means of which the seat may be secured directly to the saddle post. In Fig. 4 a clip is shown by means of which the saddle may be secured to the spring D. Both clips have this common feature, to wit,—each is provided with an ear which is adapted to lie between the two legs a a of the rear support, thereby keeping them separated; and a bolt passes through suitable holes in both of said supports and said ear, whereby said parts are securely fastened together.

From the construction above described, it is evident that by loosening the nut of the bolt by which this connection is made, the seat may be turned upon this bolt as a pivot thereby changing the inclination of the seat; and when said seat is at the right inclination the nut may be again screwed up, thereby firmly fastening the parts together.

In Fig. 4 I show, as above stated, a clamp adapted to secure the seat to the U-shaped spring D. This clamp E is provided with a slot e through which the spring D passes. The ear e' is vertically divided, and the bolt e^3 draws the two parts of said ear together thereby causing the clamp to grip the spring at the same time and by the same means by which the seat is rigidly fixed to the clamp. The clamp G, which, when the U-shaped spring D is employed, serves to connect the lower arm of said spring to the saddle post, is likewise provided with a horizontal slot d through which the spring D is adapted to pass; and the vertical ear g' is split in substantially the same manner and for the same purpose as the ear of the other clamp. By screwing up the nut on the bolt g^2 this clamp firmly grasps the spring D. When this clamp is used to secure the seat directly to the saddle post the spring D is removed, the ear g' is placed between the two legs a a of the rear seat support, and the bolt g^2 passes through said legs and the ear g' thereby securing them together.

The saddle as above described has little if any spring action except when the U-shaped spring is employed. When the U-shaped spring is employed, however, the entire saddle is sufficiently resilient to be adapted for use as a road saddle. When this spring is not in use, the saddle is adapted to be used as a "scorcher," so called.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a bicycle saddle, in combination, the front seat support, the rear seat support consisting of a cantle and two substantially parallel legs, a clip secured to the front seat support and having an ear which lies between the legs of the rear seat support and which is pivoted thereto near the front end thereof by a bolt, and a seat leather suspended from said front and rear seat supports, substantially as and for the purpose specified.

2. In a bicycle saddle, in combination, a rear seat support composed of two parallel flat metallic arms, a clip having an ear which lies between said arms, and a bolt which passes through said arms and ear, a front seat support, a clip to which the front seat support is attached, having an ear which lies between said flat arms, and a bolt which passes through said arms and ear, substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

ARTHUR L. GARFORD.

Witnesses:
E. L. THURSTON,
M. S. INGHAM.